PCT09

RAW SEQUENCE LISTING   DATE: 08/09/2001
PATENT APPLICATION: US/09/890,323 TIME: 12:04:10

Input Set : **A:\2517-WO Seq.txt**
Output Set: **N:\CRF3\08092001\I890323.raw**

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     3  <110> APPLICANT: Immunex Corporation
     5  <120> TITLE OF INVENTION: NEW METALLOPROTEINASE-DISINTEGRIN FAMILY MEMBERS: SVPH
     6        DNAS AND POLYPEPTIDES
     8  <130> FILE REFERENCE: 03260.0093-00304
C--> 10  <140> CURRENT APPLICATION NUMBER: US/09/890,323
C--> 11  <141> CURRENT FILING DATE: 2001-07-25
    13  <150> PRIOR APPLICATION NUMBER: 60/116,670
    14  <151> PRIOR FILING DATE: 1999-01-21
    16  <150> PRIOR APPLICATION NUMBER: 60/138,682
    17  <151> PRIOR FILING DATE: 1999-06-14
    19  <150> PRIOR APPLICATION NUMBER: 60/155,798
    20  <151> PRIOR FILING DATE: 1999-09-27
    22  <160> NUMBER OF SEQ ID NOS: 33
    24  <170> SOFTWARE: PatentIn Ver. 2.1
    26  <210> SEQ ID NO: 1
    27  <211> LENGTH: 129
    28  <212> TYPE: DNA
    29  <213> ORGANISM: Homo sapiens
    31  <220> FEATURE:
    32  <223> OTHER INFORMATION: "n" at various positions throughout the sequence
    33        may be any nucleotide
    35  <400> SEQUENCE: 1
    36  atttttgata ccacagtgac caacacggtc acctaaggtg ttcaattctt tgtagcaagt 60
W--> 37  ctcacttgca gtatttgcgc ctgcaccaaa aatcctccta cactgttcan ttgcggtcat 120
W--> 38  gacangctc                                                         129
    41  <210> SEQ ID NO: 2
    42  <211> LENGTH: 469
    43  <212> TYPE: DNA
    44  <213> ORGANISM: Homo sapiens
    46  <400> SEQUENCE: 2
    47  tttttgagta agaataggtc atgttttagt aaaacttcca aaagaacaaa acagattctt 60
    48  caacccagga ggacatgtga gtcacaatac cctttaatcc acaggttggc tccttggttt 120
    49  ctggaacttt ctgcctcctg taaacgatgt gcgggtggta ccctccctca accagtggat 180
    50  gcttcttcac gggttcaatg aaaaagtctc catgtggtag ttggaaaaat ccagtcagtc 240
    51  catggcaggc actgagggct gccgtcccaa ctctggtgcc ctgctgtaga accgtgccac 300
    52  taagatggca gagtggggca gaggaagcca tcatcttaac atgggagagg ttcccatatc 360
    53  tcttctccat gatgtagcta ttggaaagaa atccttcatt gaccgtcaag ttaaaaaaca 420
    54  agtccttctc ctcgtgagaa attctgtagt acacccagtc ctctgagcc              469
    57  <210> SEQ ID NO: 3
    58  <211> LENGTH: 1500
    59  <212> TYPE: DNA
    60  <213> ORGANISM: Homo sapiens
    62  <400> SEQUENCE: 3
    63  cacgaggatt tatatcttca aagaaaatat aatgatgctc ttgcatggtc gtttggaaaa 60
    64  gtgttctctt at...
```

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67 aattgcagtt atatctcttt ttttaaacat atctcttcgg gagcaacatg tctaaataat 300
68 atcccaggac taggttatgt gcttaagaga tgtggaaaca aaattgtgga ggacaatgag 360
69 gaatgtgatt gtggttccac agaggagtgt cagaaagatc ggtgttgcca atcaaattgt 420
70 aagttgcaac caggtgccaa ctgtagcatt ggactttgct gtcatgattg tcggtttcgt 480
71 ccatctggat acgtgtgtag gcaggaagga aatgaatgtg accttgcaga gtactgcgac 540
72 gggaattcaa gttcctgccc aaatgacgtt tataagcagg atggaacccc ttgcaagtat 600
73 gaaggccgtt gtttcaggaa ggggtgcaga tccagatata tgcagtgcca aagcattttt 660
74 ggacctgatg ccatggaggc tcctagtgag tgctatgatg cagttaactt aataggtgat 720
75 caatttggta actgtgagat tacaggaatt cgaaatttta aaaagtgtga aagtgcaaat 780
76 tcaatatgtg gcaggctaca gtgtataaat gttgaaacca tccctgattt gccagagcat 840
77 acgactataa tttctactca tttacaggca gaaaatctca tgtgctgggg cacaggctat 900
78 catctatcca tgaaacccat gggaatacct gacctaggta tgataaatga tggcacctcc 960
79 tgtggagaag gccgggtatg tttttaaaaaa aattgcgtca atagctcagt cctgcagttt 1020
80 gactgtttgc ctgagaaatg caatacccgg ggtgtttgca acaacagaaa aaactgccac 1080
81 tgcatgtatg ggtgggcacc tccattctgt gaggaagtgg ggtatggagg aagcattgac 1140
82 agtggggcctc caggactgct cagaggggcg attccctcgt caatttgggt tgtgtccatc 1200
83 ataatgtttc gccttatttt attaatcctt tcagtggttt ttgtgttttt ccggcaagtg 1260
84 atagggaaacc acttaaaacc caaacaggaa aaaatgccac tatccaaagc aaaaactgaa 1320
85 caggaagaat ctaaaacaaa aactgtacag gaagaatcta aaacaaaaac tggacaggaa 1380
86 gaatctgaag caaaaactgg acaggaagaa tctaaagcaa aaactggaca ggaagaatct 1440
87 aaagcaaaca ttgaaagtaa acgacccaaa gcaagagtg tcaagaaaca aaaaaagtaa 1500
90 <210> SEQ ID NO: 4
91 <211> LENGTH: 40
92 <212> TYPE: PRT
93 <213> ORGANISM: Homo sapiens
95 <220> FEATURE:
96 <223> OTHER INFORMATION: "Xaa" at various positions throughout the sequence
97        may be any amino acid
99 <400> SEQUENCE: 4
```

W--> **100 Met Thr Ala Xaa Glu Gln Cys Arg Arg Ile Phe Gly Ala Gly Ala Asn**
```
101    1            5                 10                15
103 Thr Ala Ser Glu Thr Cys Tyr Lys Glu Leu Asn Thr Leu Gly Asp Arg
104              20              25              30
106 Val Gly His Cys Gly Ile Lys Asn
107          35              40
110 <210> SEQ ID NO: 5
111 <211> LENGTH: 123
112 <212> TYPE  PRT
113 <213> ORGANISM  Homo sapiens
115 <400> SEQUENCE: 5
116 Glu Asp Trp Val Tyr Tyr Arg Ile Ser His Glu Glu Lys Asp Leu Phe
117    1            5                 10                15
119 Phe Asn Leu Thr Val Asn Glu Gly Phe Leu Ser Asn Ser Tyr Ile Met
120              20              25              30
122 Glu Lys Arg Tyr Gly Asn Leu Ser His Val Lys Met Met Ala Ser Ser
123          35              40              45
125 Ala Pro Leu Cys His Leu Ser Gly Thr Val Leu Gln Gln Gly Thr Arg
126      50              55              60
128 Val Gly Thr Ala Ala Leu Ser Ala Cys His ... ... ... ... ... ...
```

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Input Set : **A:\2517-WO Seq.txt**
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```
129  65                     70                  75                  80
131 Gln Leu Pro His Gly Asp Phe Phe Ile Glu Pro Val Lys Lys His Pro
132              85                  90                  95
134 Leu Val Glu Gly Gly Tyr His Pro His Ile Val Tyr Arg Arg Gln Lys
135             100                 105                 110
137 Val Pro Glu Thr Lys Glu Pro Thr Cys Gly Leu
138         115                 120
141 <210> SEQ ID NO: 6
142 <211> LENGTH: 499
143 <212> TYPE: PRT
144 <213> ORGANISM: Homo sapiens
146 <400> SEQUENCE: 6
147 His Glu Asp Leu Tyr Leu Gln Arg Lys Tyr Asn Asp Ala Leu Ala Trp
148   1              5                  10                  15
150 Ser Phe Gly Lys Val Cys Ser Leu Glu Tyr Ala Gly Ser Val Ser Thr
151              20                  25                  30
153 Leu Leu Asp Thr Asn Ile Leu Ala Pro Ala Thr Trp Ser Ala His Glu
154          35                  40                  45
156 Leu Gly His Ala Val Gly Met Ser His Asp Glu Gln Tyr Cys Gln Cys
157      50                  55                  60
159 Arg Gly Arg Pro Asn Cys Ile Met Gly Ser Gly Arg Thr Gly Phe Ser
160   65              70                  75                  80
162 Asn Cys Ser Tyr Ile Ser Phe Phe Lys His Ile Ser Ser Gly Ala Thr
163              85                  90                  95
165 Cys Leu Asn Asn Ile Pro Gly Leu Gly Tyr Val Leu Lys Arg Cys Gly
166             100                 105                 110
168 Asn Lys Ile Val Glu Asp Asn Glu Glu Cys Asp Cys Gly Ser Thr Glu
169         115                 120                 125
171 Glu Cys Gln Lys Asp Arg Cys Cys Gln Ser Asn Cys Lys Leu Gln Pro
172     130                 135                 140
174 Gly Ala Asn Cys Ser Ile Gly Leu Cys Cys His Asp Cys Arg Phe Arg
175 145                 150                 155                 160
177 Pro Ser Gly Tyr Val Cys Arg Gln Glu Gly Asn Glu Cys Asp Leu Ala
178             165                 170                 175
180 Glu Tyr Cys Asp Gly Asn Ser Ser Ser Cys Pro Asn Asp Val Tyr Lys
181             180                 185                 190
183 Gln Asp Gly Thr Pro Cys Lys Tyr Glu Gly Arg Cys Phe Arg Lys Gly
184         195                 200                 205
186 Cys Arg Ser Arg Tyr Met Gln Cys Gln Ser Ile Phe Gly Pro Asp Ala
187     210                 215                 220
189 Met Glu Ala Pro Ser Glu Cys Tyr Asp Ala Val Asn Leu Ile Gly Asp
190 225                 230                 235                 240
192 Gln Phe Gly Asn Cys Glu Ile Thr Gly Ile Arg Asn Phe Lys Lys Cys
193             245                 250                 255
195 Glu Ser Ala Asn Ser Ile Cys Gly Arg Leu Gln Cys Ile Asn Val Glu
196             260                 265                 270
198 Thr Ile Pro Asp Leu Pro Glu His Thr Thr Ile Ile Ser Thr His Leu
199     275                 280                 285
201 Gln Ala Glu Asn Leu Met Cys Trp Gly Thr Gly Tyr His Leu Gly Met
```

S 9 01

RAW SEQUENCE LISTING   DATE: 08/09/2001
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Input Set : **A:\2517-WO Seq.txt**
Output Set: **N:\CRF3\08092001\I890323.raw**

```
202      290                    295                   300
204  Lys Pro Met Gly Ile Pro Asp Leu Gly Met Ile Asn Asp Gly Thr Ser
205  305               310                   315                   320
207  Cys Gly Glu Gly Arg Val Cys Phe Lys Lys Asn Cys Val Asn Ser Ser
208               325               330                   335
210  Val Leu Gln Phe Asp Cys Leu Pro Glu Lys Cys Asn Thr Arg Gly Val
211               340               345                   350
213  Cys Asn Asn Arg Lys Asn Cys His Cys Met Tyr Gly Trp Ala Pro Pro
214               355               360                   365
216  Phe Cys Glu Glu Val Gly Tyr Gly Gly Ser Ile Asp Ser Gly Pro Pro
217      370                    375                   380
219  Gly Leu Leu Arg Gly Ala Ile Pro Ser Ser Ile Trp Val Val Ser Ile
220  385               390                   395                   400
222  Ile Met Phe Arg Leu Ile Leu Leu Ile Leu Ser Val Val Phe Val Phe
223               405                    410                   415
225  Phe Arg Gln Val Ile Gly Asn His Leu Lys Pro Lys Gln Glu Lys Met
226               420                    425                   430
228  Pro Leu Ser Lys Ala Lys Thr Glu Gln Glu Glu Ser Lys Thr Lys Thr
229      435               440                   445
231  Val Gln Glu Glu Ser Lys Thr Lys Thr Gly Gln Glu Glu Ser Glu Ala
232      450               455                   460
234  Lys Thr Gly Gln Glu Glu Ser Lys Ala Lys Thr Gly Gln Glu Glu Ser
235  465               470                   475                   480
237  Lys Ala Asn Ile Glu Ser Lys Arg Pro Lys Ala Lys Ser Val Lys Lys
238               485                    490                   495
240  Gln Lys Lys
244  <210> SEQ ID NO: 7
245  <211> LENGTH: 2301
246  <212> TYPE: DNA
247  <213> ORGANISM: Homo sapiens
249  <400> SEQUENCE: 7
250  atgaagatgt tactcctgct gcattgcctt ggggtgtttc tgtcctgttc tggacacatc 60
251  caggatgagc accccccaata tcacagccct ccggatgtgg tgattcctgt gaggataact 120
252  ggcaccacca gaggcatgac acctccaggc tggctctcct atatcctgcc ctttggaggc 180
253  cagaaacaca ttatccacat aaaggtcaag aagcttttgt tttccaaaca cctccctgtg 240
254  ttcacctaca cagaccaggg tgctatcctt gaggaccagc catttgtcca gaataactgc 300
255  tactatcatg gttatgtgga aggggaccca gaatccctgg tttccctcag tacctgtttt 360
256  gggggttttc aaggaatatt acagataaat gactttgctt atgaaatcaa gcccctagca 420
257  tttttctacca cgtttgaaca tctggtatac aagatggaca gtgaggagaa acaattttca 480
258  accatgagat ccggatttat gcaaaatgaa ataacatgcc gaatggaatt tgaagaaatt 540
259  gataattcca ctcagaagca aagttcttat gtgggctggt ggatccattt taggattgtt 600
260  gaaattgtag tcgtcattga taattatctg tacattcgtt atgaaaggaa cgactcaaag 660
261  ttgctggagg atctatatgt tattgttaat atagtggatt ccattttgga tgtcattggt 720
262  gttaaggtgt tattatttgg tttggagatc tggaccaata aaaacctcat tgtagtagat 780
263  gatgtaagga aatctgtgca cctgtattgc aagtggaagt cggagaacat tacgcccgg 840
264  atgcaacatg acacctcaca tcttttcaca actctaggat taagagggtt aagtggcata 900
265  ggagctttta gaggaatgtg tacaccacac cgtagttgtg caattgttac tttcatgaac 960
266  aaaactttgg gcacttttc aattgcagtg gctcatcatc tagttcataa tttgggcatg 1020
267  aaccatgatg aggatacatg tcgttgttca caacctagat ...
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RAW SEQUENCE LISTING   DATE: 08/09/2001
PATENT APPLICATION: US/09/890,323   TIME: 12:04:10

Input Set : **A:\2517-WO Seq.txt**
Output Set: **N:\CRF3\08092001\I890323.raw**

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268 ccaccaataa ctaaatttag caattgtagt tatggtgatt tttgggaata tactgtagag 1140
269 aggacaaagt gtttgcttga aacagtacac acaaaggaca tctttaatgt gaagcgctgt 1200
270 gggaatggtg ttgttgaaga aggagaagag tgtgactgtg gacctttaaa gcattgtgca 1260
271 aaagatccct gctgtctgtc aaattgcact ctgactgatg gttctacttg tgcttttggg 1320
272 ctttgttgca aagactgcaa gttcctacca tcagggaaag tgtgtagaaa ggaggtcaat 1380
273 gaatgtgatc ttccagagtg gtgcaatggt acttcccata agtgcccaga tgacttttat 1440
274 gtggaagatg gaattccctg taaggagagg ggctactgct atgaaaagag ctgtcatgac 1500
275 cgcaatgaac agtgtaggag gattttggt gcaggcgcaa atactgcaag tgagacttgc 1560
276 tacaaagaat tgaacacctt aggtgaccgt gttggtcact gtggtatcaa aaatgctaca 1620
277 tatataaagt gtaatatctc agatgtccag tgtggaagaa ttcagtgtga gaatgtgaca 1680
278 gaaattccca atatgagtga tcatactact gtgcattggg ctcgcttcaa tgacataatg 1740
279 tgctggagta ctgattacca tttgggatg aagggacctg atattggtga agtgaaagat 1800
280 ggaacagagt gtgggataga tcatatatgc atccacaggc actgtgtcca tataaccatc 1860
281 ttgaatagta attgctcacc tgcatttgt aacaagaggg gcatctgcaa caataaacat 1920
282 cactgccatt gcaattatct gtgggaccct cccaactgcc tgataaaagg ctatggaggt 1980
283 agtgttgaca gtggcccacc ccctaagaga aagaagaaaa agaagttctg ttatctgtgt 2040
284 atattgttgc ttattgtttt gtttatttta ttatgttgtc tttatcgact ttgtaaaaaa 2100
285 agtaaaccaa taaaaaagca gcaagatgtt caaactccat ctgcaaaaga agaggaaaaa 2160
286 attcagcgtc gacctcatga gttacctccc cagagtcaac cttgggtgat gccttcccag 2220
287 agtcaacctc ctgtgacacc ctcccagagg caacctcagt tgatgccttc ccagagtcaa 2280
288 cctcctgtga cgccctccta g                                         2301
291 <210> SEQ ID NO: 8
292 <211> LENGTH: 2364
293 <212> TYPE: DNA
294 <213> ORGANISM: Homo sapiens
296 <400> SEQUENCE: 8
297 atgaagatgt tactcctgct gcattgcctt ggggtgtttc tgtcctgttc tggacacatc 60
298 caggatgagc accccccaata tcacagccct ccggatgtgg tgattcctgt gaggataact 120
299 ggcaccacca gaggcatgac acctccaggc tggctctcct atatcctgcc ctttggaggc 180
300 cagaaacaca ttatccacat aaaggtcaag aagcttttgt tttccaaaca cctccctgtg 240
301 ttcacctaca cagaccaggg tgctatcctt gaggaccagc catttgtcca gaataactgc 300
302 tactatcatg gttatgtgga aggggaccca gaatccctgg tttccctcag tacctgtttt 360
303 gggggttttc aaggaatatt acagataaat gactttgctt atgaaatcaa gcccctagca 420
304 ttttctacca cgtttgaaca tctggtatac aagatggaca gtgaggagaa acaatttca 480
305 accatgagat ccggatttat gcaaaatgaa ataacatgcc gaatggaatt tgaagaaatt 540
306 gataattcca ctcagaagca aagttcttat gtgggctggt ggatccattt taggattgtt 600
307 gaaattgtag tcgtcattga taattatctg tacattcgtt atgaaaggaa cgactcaaag 660
308 ttgctggagg atctatatgt tattgttaat atagtggatt ccatttgga tgtcattggt 720
309 gttaaggtgt tattatttgg tttgggagatc tggaccaata aaaacctcat tgtagtagat 780
310 gatgtaagga aatctgtgca cctgtattgc aagtggaagt cggagaacat tacgcccggg 840
311 atgcaacatg acacctcaca tcttttcaca actctaggat taagagggtt aagtggcata 900
312 ggagcttta gaggaatgtg tacaccacac cgtagttgtg caattgttac tttcatgaac 960
313 aaaactttgg gcactttttc aattgcagtg gctcatcatc taggtcataa tttgggcatg 1020
314 aaccatgatg aggatacatg tcgttgttca caacctagat gcataatgca tgaaggcaac 1080
315 ccaccaataa ctaaatttag caattgtagt tatggtgatt tttgggaata tactgtagag 1140
316 aggacaaagt gtttgcttga aacagtacac acaaaggaca tctttaatgt gaagcgctgt 1200
317 gggaatggtg ttgttgaaga aggagaagag tgtgactgtg gacctttaaa gcattgtgca 1260
318 aaagatccct gctgtctgtc aaattgcact ctgactgatg gttctacttg tgcttttggg 1320
319 ctttgttgca aagactgcaa gttcctacca tcagggaaag tgtgtagaaa ggaggtcaat 1380
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VERIFICATION SUMMARY   DATE: 08/09/2001
PATENT APPLICATION: **US/09/890,323**   TIME: 12:04:11

Input Set : **A:\2517-WO Seq.txt**
Output Set: **N:\CRF3\08092001\I890323.raw**

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L:10 M:270 C: Current Application Number differs, Replaced Application Number
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:37 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:1
L:37 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:1
L:37 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:38 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:1
L:38 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:1
L:38 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:100 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:4
L:100 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:4
L:100 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:1471 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:31
L:1471 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:31
L:1471 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31
L:1502 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:33
L:1502 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:33
L:1502 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33
```